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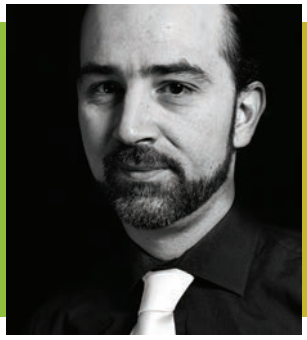
FOR THE AV JOURNEY

HDBaseT | Modular Matrix | AV Conversion | AV Distribution | HDMI Distribution

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE | DOLBY DIGITAL | HDBT | 4K2K

Welcome to our showcase magazine for ISE 2015

> **“It’s not a faith in technology, it’s faith in people”**
>
> **Steve Jobs**



Kevin Cray
Managing director

As a leading manufacturer of audio/visual distribution systems, 2015 promises to be another busy and exciting year for CYP, with the latest video technologies such as 4K being integrated throughout our solutions. In addition, new HDBaseT products, modular multi-format matrices and presentation switches are also being launched. This year's ISE will be the first time that we have gathered together all of these key new models, all of which offer unique features and opportunities allowing you to create ever more intricate yet reliable AV distribution systems.

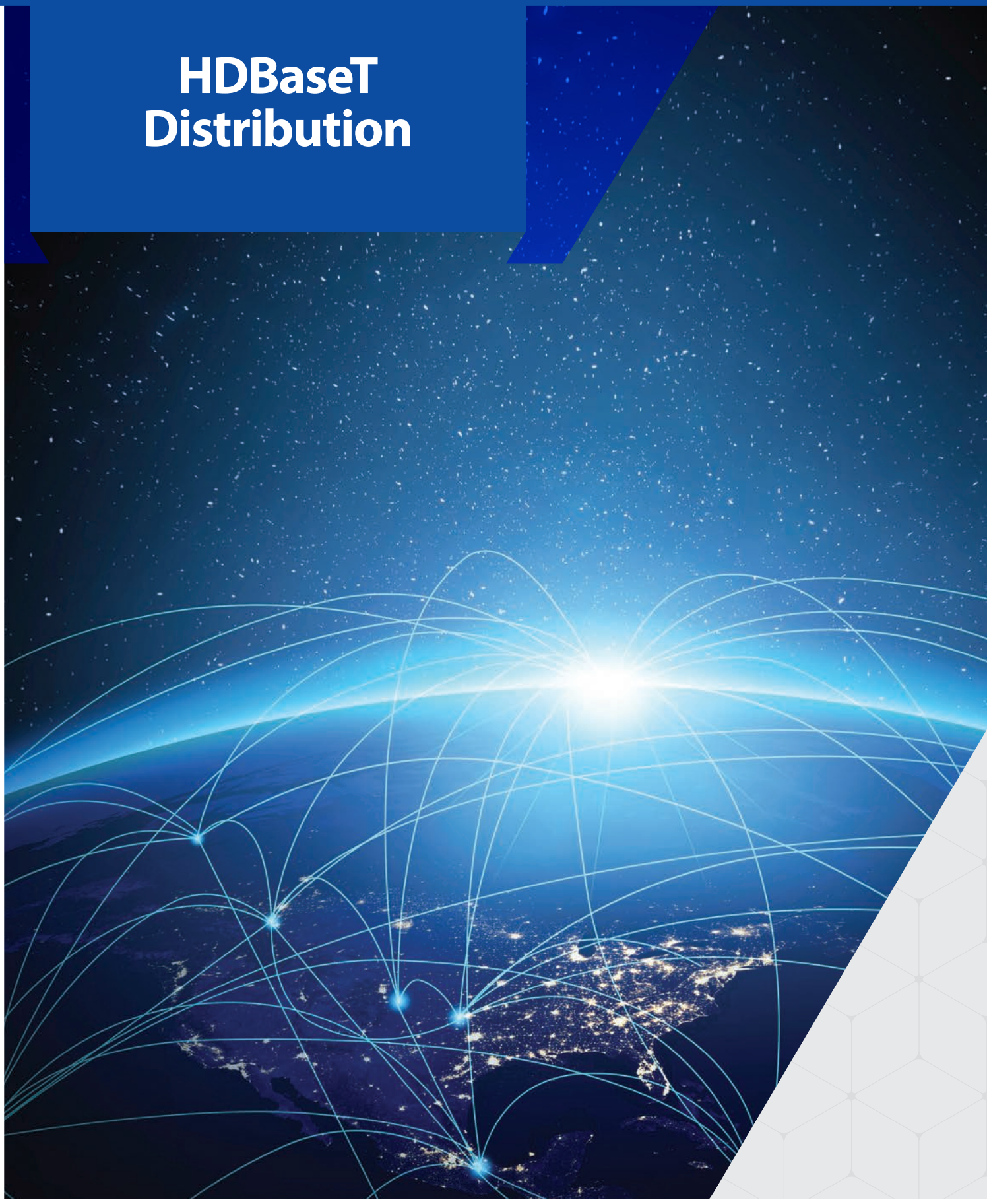
Rather than be just another product catalogue, we are using this magazine to give you a deeper insight into our key technologies and to introduce our new, colour-coded product range categorisation concept. Designed to make product selection simpler, we feel that colour-coding our products will reduces the time it takes for you to select the right product for the job in hand. Just look for the product key at the bottom of each page…

You will hopefully have noticed the title of the magazine - For The AV Journey. This relates to our belief that as manufacturers and suppliers of leading-edge technology products, the support that we offer is crucial. No matter what your requirement, we are here to help make your journey easier, which is why we continue to invest significantly in our technical support and training at our Shepperton HQ. However, without industry-leading products, we would not be where we are today and I want to take this opportunity to thank our wonderful industry-leading Taiwan-based R&D team. With over twenty years experience and 90-plus engineers at the last count, the team work tirelessly twelve months of the year to make sure we have the most reliable and performance-enhancing AV solutions in the market.

That just leaves me to say thank you to you, our partners, for your on-going support and we look forward to working with you throughout 2015 as we continue the journey together.

HDBaseT | Modular Matrix | AV Conversion | AV Distribution | HDMI Distribution

HDBaseT Distribution



THE FUTURE OF CONNECTIVITY AVAILABLE NOW.

HDBaseT™ technology has truly revolutionised the market for AV distribution. Never before has there been a signal platform that can deliver HDMI, RS-232, IR, Ethernet and Power over Cable (PoC) over a dedicated single CAT cable infrastructure. Distributing to lengths of up to 100m, HDBaseT products are now being specified as the backbone solution on nearly all commercial and residential AV installations.

As a primary HDBaseT alliance member, CYP has been at the forefront of this technology since its launch. Through innovative integration of the HDBaseT chipset, our engineers have developed the world's most comprehensive range of robust market leading distribution hardware.

HDBaseT Distribution

Our HDBaseT solutions support the transmission of uncompressed HD video and multi-channel digital audio over a single CAT5e/6/7 cable (up to 100m) for each output. High resolution digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and Dolby Atmos are also supported as well as 3D content and 4K resolutions (where indicated).

Control is via manual selection buttons, IR, RS-232, Telnet or Web GUI, and we provide control drivers for all the major control systems. Some matrices also feature RS-232 passthrough and CEC control function of both sources and screens using Telnet, Web GUI or RS232.

HDBaseT 4-Play Matrices enable Power over Cable (PoC), and 5-Play variants also add LAN serving capabilities to the feature set.

8X8 Matricies

Model	Compatible Receiver	Length (@1080p)	HDBaseT Version	Max Resolution	LAN Serving	PoC	RS-232
PU-8H8HBTE-4K	PU-515PL-RX	60m	4Play	4K2K	×	✓	✓
	PU-506RX	100m	3Play	4K2K	×	×	✓
	PU-507RX/PU-507WPRX	100m	5Play	4K2K	✓	✓	✓
	PU-1109RX	100m	5Play	4K2K	✓✓✓	✓	✓
PU-8H8HBTE	PU-515PL-RX	60m	4Play	1080p	×	✓	✓
	PU-506RX	100m	3Play	1080p	×	×	✓
	PU-507RX/PU-507WPRX	100m	5Play	1080p	✓	✓	✓
	PU-1109RX	100m	5Play	1080p	✓✓✓	✓	✓
PU-8H8HBTPL-4K	PU-515PL-RX	60m	4Play	4K2K	×	✓	✓
	PU-514L-RX	60m	3Play	4K2K	×	×	✓
	PU-514L-WPRX	60m	3Play	4K2K	×	×	✓
PU-8H8HBTPL	PU-515PL-RX	60m	4Play	1080p	×	✓	✓
	PU-514L-RX	60m	3Play	1080p	×	×	✓
	PU-514L-WPRX	60m	3Play	1080p	×	×	✓

4X4 Matricies

PU-4H4HBTE-4K

4 x 4 HDMI HDBaseT™ Matrix (5-Play™ including LAN serving & 4K resolution support)

PU-444HBTE

4 x 8 HDMI HDBaseT™ Matrix (4 x HDBaseT & 4 x HDMI Outputs) (5-Play™ inc. PoC & single LAN, up to 100m)

PU-424HBTE

4 x 4 HDMI HDBaseT™ Matrix with 2 simultaneous HDMI Outputs (5-Play™ including PoC)

PU-442PL-KIT

4 x 4 HDBaseT™ LITE Matrix w. 4x PU-515PL-RX PoC Receivers, plus 2 additional independent HDMI zone outputs (total 4 x 6 Matrix)

PU-4H4HBTPL-4K-KIT

4 x 4 HDMI HDBaseT™ LITE Matrix (w. PoC & 4K resolution support) Kit inc. 4x PU-515PL-RX Receivers

PU-424HBTL-KIT

4 x 4 HDMI HDBaseT™ LITE Matrix (w. 2 simultaneous HDMI outputs) Kit inc. 4x PU-514L-RX Receivers

PU-44XL-KIT

Express Installation Kit - 4 x 4 HDBaseT™ LITE Matrix with PU-514L-RX Receivers

Model	Compatible Receiver	Length (@1080p)	HDBaseT Version	Max Resolution	LAN Serving	PoC	RS-232
PU-4H4HBTE-4K	PU-515PL-RX	60m	4Play	4K2K	×	✓	✓
	PU-506RX	100m	3Play	4K2K	×	×	✓
	PU-507RX/PU-507WPRX	100m	5Play	4K2K	✓	✓	✓
	PU-1109RX	100m	5Play	4K2K	✓✓✓	✓	✓
PU-444HBTE & PU-424HBTE	PU-515PL-RX	60m	4Play	1080p	×	✓	✓
	PU-506RX	100m	3Play	1080p	×	×	✓
	PU-507RX/PU-507WPRX	100m	5Play	1080p	✓	✓	✓
	PU-1109RX	100m	5Play	1080p	✓✓✓	✓	✓
PU-4H4HBTPL-4K-KIT	PU-515PL-RX	60m	4Play	4K2K	×	✓	✓
	PU-514L-RX	60m	3Play	4K2K	×	×	✓
	PU-514L-WPRX	60m	3Play	4K2K	×	×	✓
PU-442PL-KIT	PU-515PL-RX	60m	4Play	1080p	×	✓	✓
	PU-514L-RX	60m	3Play	1080p	×	×	✓
	PU-514L-WPRX	60m	3Play	1080p	×	×	✓
PU-424HBTL-KIT	PU-514L-RX	60m	3Play	1080p	×	×	✓
	PU-514L-WPRX	60m	3Play	1080p	×	×	✓
PU-44XL-KIT	PU-514L-RX	60m	3Play	1080p	×	×	✓

Transmitters & Receivers

PU-1109TX

5-Play HDBaseT™ Transmitter (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and 3 individual LAN connections over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-1109RX

5-Play HDBaseT™ Receiver (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and 3 individual LAN connections over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-507TX

5-Play HDBaseT™ Transmitter (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-507RX

5-Play HDBaseT™ Receiver (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-507TX-1H

5-Play HDBaseT™ Transmitter with simultaneous HDMI output (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-507WPRX

5Play™ HDBaseT™ Wall Plate Receiver (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-507TX-HDVGA

Switchable HDMI & VGA HDBaseT™ Transmitter with integrated video scaling (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-507RX-2H

5-Play HDBaseT™ Receiver with dual HDMI outputs (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-507TX-CVGA

CV / PC over HDBaseT™ Transmitter with integrated video scaling (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-507RX-2HCD

5-Play HDBaseT™ Receiver with dual HDMI output & audio breakout (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and 2x LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-506TX

3-Play HDBaseT™ Transmitter (100m)

HDMI, 2-Way IR, and 2-Way RS-232, over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-506RX

3-Play HDBaseT™ Reciever (100m)

HDMI, 2-Way IR, and 2-Way RS-232, over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-515PL-TX

4-Play HDBaseT™ LITE Transmitter with PoC (60m)

HDMI, 2-Way IR, 2-Way RS-232, and PoC (Power over Cable) over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

PU-515PL-RX

4-Play HDBaseT™ LITE Receiver with PoC (60m)

HDMI, 2-Way IR, 2-Way RS-232, and PoC (Power over Cable) over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

PU-515PLTX-1H

4-Play HDBaseT™ LITE Transmitter with simultaneous HDMI output and PoC (60m)

HDMI, 2-Way IR, 2-Way RS-232, and PoC (Power over Cable) over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

PU-515PLRX-2HCD

4-Play HDBaseT™ LITE Receiver with dual HDMI output, Audio De-embedding and PoC (60m)

HDMI, 2-Way IR, 2-Way RS-232, and PoC (Power over Cable) over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

PU-514L-TX

3-Play HDBaseT™ LITE Transmitter (60m)

HDMI, 2-Way IR, and 2-Way RS-232, over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

PU-514L-RX

3-Play HDBaseT™ LITE Receiver (60m)

HDMI, 2-Way IR, and 2-Way RS-232 over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

PU-514LTX-1H

3-Play HDBaseT™ LITE Transmitter with simultaneous HDMI output (60m)

HDMI, 2-Way IR, and 2-Way RS-232, over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

PU-514L-WPRX

4-Play HDBaseT™ LITE Wall Plate Receiver (60m)

HDMI, 2-Way IR, and 2-Way RS-232, over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

Bi-Directional PoC TX & RX

PU-607BD-TX

5-Play HDBaseT™ Transmitter with Bi-directional PoC (100m)

HDMI, 2-Way IR, 2-Way RS-232, Bi-directional PoC and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-607BD-RX

5-Play HDBaseT™ Receiver with Bi-directional PoC (100m)

HDMI, 2-Way IR, 2-Way RS-232, Bi-directional PoC and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-607BDWP-TX

5-Play HDBaseT™ Wall Plate Transmitter with Bi-directional PoC (100m)

HDMI, 2-Way IR, 2-Way RS-232, Bi-directional PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-607BDWP-RX

5-Play HDBaseT™ Wall Plate Receiver with Bi-directional PoC (100m)

HDMI, 2-Way IR, 2-Way RS-232, PoC (Power over Cable) and Single LAN connection over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

PU-606PLBD-TX

4-Play HDBaseT™ LITE Transmitter with Bi-directional PoC (60m)

HDMI, 2-Way IR, 2-Way RS-232, and Bi-directional PoC (Power over Cable) over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

PU-606PLBD-RX

4-Play HDBaseT™ LITE Receiver with Bi-directional PoC (60m)

HDMI, 2-Way IR, 2-Way RS-232, and Bi-directional PoC (Power over Cable) over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K.

Repeaters & Zone Extenders

PU-HBT-EX

100m HDBaseT™ Repeater

Designed to extend the signal transmission distances of CYP HDBaseT™ Extender sets, Splitters and Matrix systems by 100m. This device can be cascaded multiple times. Supports HDMI, 2-Way IR, 2-Way RS-232, PoC and LAN over a Single CAT5e/6 cable. Supports resolutions up to 4K2K.

Also available as HDBaseT Lite (60m) (PU-HBTL-EX)

PU-HBTE-ZE

100m HDBaseT™ Zone Extender

Easily create additional zones for any HDBaseT distribution system using the HDBaseT pass-through and HDMI breakout. This device can be cascaded multiple times to create additional zones. Supports HDMI, 2-Way IR, 2-Way RS-232, and PoC over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K.

Also available as HDBaseT Lite (60m) with PoC (PU-HBTPL-ZE)

Distribution Amplifiers

PU-1H7HBTE

1 HDMI to 7 HDBaseT™ Splitter (100m) including HDMI bypass output

HDMI, 2-Way IR, 2-Way RS-232, PoC and LAN over a Single CAT5e/6 cable, to lengths of up to 100m. Supports resolutions up to 4K2K. Compatible with all PU-507 Receiver variants.

Also available as HDBaseT Lite (60m) with PoC (PU-1H7HBTPL)

PU-1H3HBTE

1 HDMI to 3 HDBaseT™ Splitter (100m) including HDMI bypass output

HDMI, 2-Way IR, 2-Way RS-232, and PoC over a Single CAT5e/6 cable, to lengths of up to 60m. Supports resolutions up to 4K2K. Compatible with all PU-507 Receiver variants.

Also available as HDBaseT Lite (60m) with PoC (PU-1H3HBTPL)

Presentation Switcher

EL-5500-HBT

8 x 4 HDBaseT™ / HDMI / VGA Presentation Switch (With switchable digital bypass output) 8 x 4 HDBaseT™ / HDMI / VGA Presentation Switch (With switchable digital bypass output)

The EL-5500-HBT is an advanced rack mountable HDBaseT, HDMI, VGA, and Composite presentation switcher. This device can scale and switch eight input sources to its two HDMI outputs and a single HDBaseT output, with their associated audio signals to the native resolutions supported by the connected display. This presentation switch also features a switchable digital bypass output allowing any HDMI or HDBaseT input to be directly bypassed via the HDMI bypass output.

Control is via the IR remote, RS-232, IP, or via manual selection buttons. Both digital and analogue stereo audio is supported via a built-in DAC (Digital to Analogue Converter) and ADC (Analogue to Digital Converter) providing flexible audio signal integration. The EL-5500-HBT is the perfect solution for any educational or commercial environment requiring integration of multiple sources and signal formats to three HDMI displays.

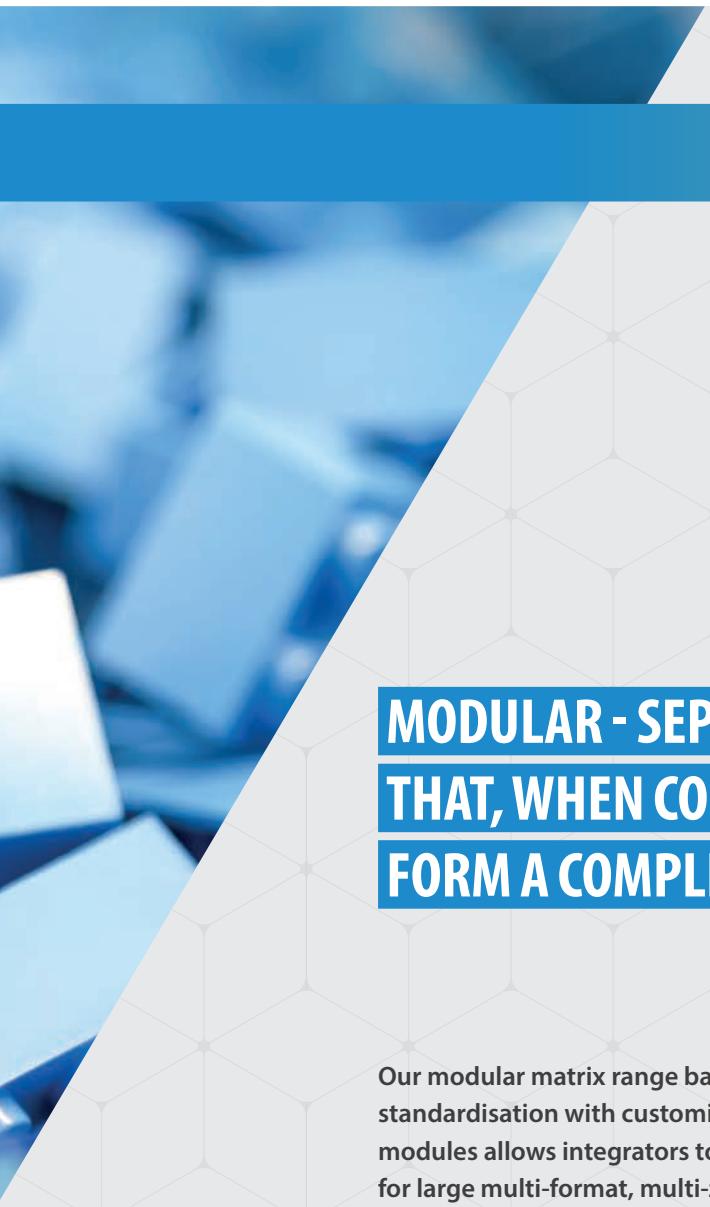
Audio Amplifier

AU-A300-HBT

HDBaseT™ 2-Channel Digital AV Receiver (Repeatable)

The AU-A300-HBT is a compact 2 channel digital receiver perfect for providing high quality audio distribution in remote AV zones within any multi-room installation. This advanced solution can integrate local HDMI and remote HDBaseT sources from a CYP matrix, local inputs (iPod and MP3 etc) via the stereo and digital inputs and even utilise the audio output from a TV, which is growing in popularity as a dedicated source within an AV system. The device also incorporates a HDBaseT output that can be used for creating additional HDBaseT zones or used to repeat the signal to further HDBaseT 2-Channel Digital AV Receivers.

Modular Matrices



MODULAR - SEPARATE PARTS THAT, WHEN COMBINED, FORM A COMPLETE WHOLE.

Our modular matrix range balances the advantages of standardisation with customisation. Combining simple modules allows integrators to create a flexible solution for large multi-format, multi-zone environments. This approach enables a reduction in overall costs and is easily adaptable and scalable for changes to the system design over the lifespan of the install.

Consisting of the range-topping 5U 32 x 32 and 3U 16 x 16 chassis', our modular matrices break new ground thanks to industry-leading technology and the levels of reliability required when creating systems of this scale. By selecting the necessary combination of inputs and outputs, integrators can create bespoke matrices designed to suit their install application.

Modular Matrices

Our latest Modular Matrices can be fitted with any combination of input and output modules, offering unparalleled levels of flexibility and performance for systems integrators and installers in any multi-zone AV environment.

Each Matrix is supplied with dual removable internal PSUs, which allow for easy inspection and maintenance with zero down time, and a DVI output for a local display, allowing installers to easily monitor, test and configure the Inputs and Outputs upon installation.

Web GUI, Telnet (IP), and RS-232 control allow users to access and control the matrix remotely and for the easy integration with third-party control systems, we provide 'free to download' IP and RS-232 drivers for Crestron, RTI, AMX, Elan, and Control 4 systems.

32X32 Modular Matrix

- Select up to 4 x 8 input modules
- Select up to 4 x 8 output modules

16X16 Modular Matrix

- Select up to 2 x 8 input modules
- Select up to 2 x 8 output modules

Modular Matrix Configuration Tool

To help with the specification process, we recently launched our online Modular Matrix Configuration Tool. Accessible via the CYP website, this useful tool enables integrators to specify their requirements and graphically build a 32 x 32 or 16 x 16 matrix using the online step-by-step wizard. A bill of parts is generated which can then be emailed for reference and easily forwarded on to their chosen CYP distributor, safe in the knowledge that all components have been selected for a fully-customised matrix that CYP builds to the installers specifications.

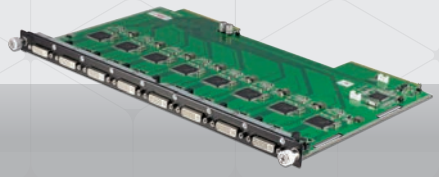
Input Modules

IN-DVI-8

Enables the connection of up to 8 x DVI sources to the modular matrix.

Resolutions up to 1080p, are supported. DVI inputs support cable lengths of up to 15m @ 1080p 8-bit, or 10m @ 1080p 12-bit.

- **Input ports:** 8x DVI
- **Video resolutions:** PC: VGA-WUXGA@60RB HD: 480i-1080p
- **Audio transmission:** LPCM7.1CH, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio (32-192KHz Fs sample rate)
- **Video Bandwidth:** 225MHz/6.75Gbps

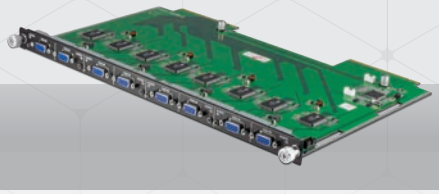


IN-VGA-8

Enables the connection of up to 8 x VGA sources to the modular matrix.

The IN-VGA-8 supports PC resolutions from VGA to WUXGA @ 60RB and will convert the incoming signal allowing any output module to be used. No scaling occurs in this conversion.

- **Input ports:** 8x VGA, 8x 2.5mm Audio mini-jack (included 2.5mm to 3.5mm adaptor)
- **Video resolutions:** PC: VGA-WUXGA@60RB

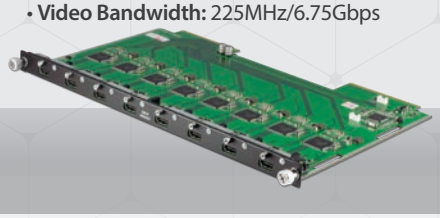


IN-HDMI-8

Enables the connection of up to 8 x HDMI sources to the modular matrix.

Resolutions up to 1080p, 1080p24, and 3D signals are supported. HDMI inputs support cable lengths of up to 15m @ 1080p 8-bit, or 10m @ 1080p 12-bit.

- **Input ports:** 8x HDMI
- **Video resolutions:** PC: VGA-WUXGA@60RB HD: 480i-1080p
- **Audio transmission:** LPCM7.1CH, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio (32-192kHz Fs sample rate)
- **Video Bandwidth:** 225MHz/6.75Gbps



Output Modules

OUT-HBT4P-8

This output module comprises 8x HDBaseT™ outputs which incorporates PoC (Power over Cable) to power the connected receiver unit, eliminating the need for a PSU at each receiver location.

Utilising the latest HDBaseT™ technologies, this device allows distribution of HD Video, HD Audio, 2-Way IR, and RS-232 to lengths of up to 100m using CAT6/7 cable infrastructure. This module is supplied with 8x IR emitters and 4x IR receivers. The PU-507RX, PU-507WPRX , PU-507RX-2H and PU-507RX-SCD receivers are compatible with this output module to utilise the PoC feature.

- **Video Bandwidth:** 225MHz/6.75Gbps
- **Output ports:** 8x CAT5e/6, 8x IR Extender, 8x IR Blaster
- **Video resolutions:** PC: VGA-WUXGA HD: 480i-1080p
- **Audio transmission:** LPCM7.1CH, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio (32~192KHz Fs sample rate)

OUT-HBT3P-8

Comprises 8x HDBaseT™ Lite outputs with PoC (Power over Cable) to power the connected receiver unit.

This device allows distribution of HD Video, HD Audio, 2-Way IR, and RS-232 to lengths of up to 60m using CAT6/7 cable infrastructure. The PU-515PL-RX and PU-515PLRX-2HCD receivers are compatible with this output module to utilise the PoC feature.

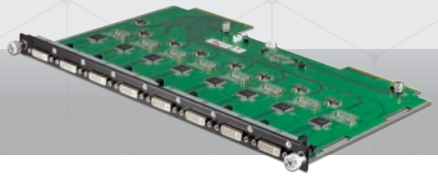
- **Output ports:** 8x CAT5e/6, 8x IR Extender, 8x IR Blaster
- **Video resolutions:** PC: VGA– WUXGA HD: 480i–1080p
- **Audio transmission:** LPCM7.1CH, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio (32~192KHz Fs sample rate)
- **Video Bandwidth:** 225MHz/6.75Gbps

OUT-DVI-8

Comprises 8x DVI outputs for connection to compatible displays.

DVI outputs support cable lengths of up to 15m @ 1080p 8-bit, or 10m @ 1080p 12-bit. DVI 1.0 Compliant

- **Output ports:** 8x DVI
- **Video resolutions:** PC: VGA–WUXGA@60RB HD: 480i–1080p
- **Audio transmission:** LPCM7.1CH, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio (32–192KHz Fs sample rate)
- **Video Bandwidth:** 225MHz/6.75Gbps

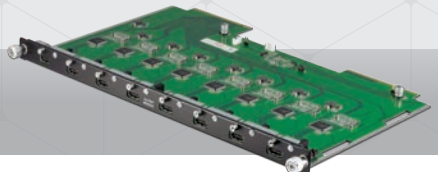


OUT-HDMI-8

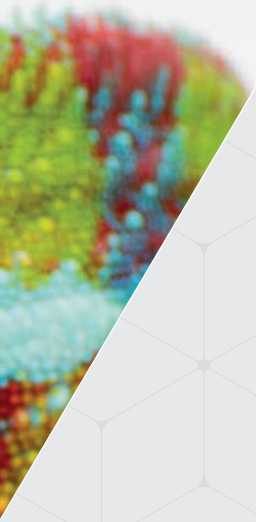
Comprises 8x HDMI outputs for connection to compatible displays.

HDMI outputs support cable lengths of up to 15m @ 1080p 8-bit, or 10m @ 1080p 12-bit.

- **Output ports:** 8x HDMI
- **Video resolutions:** PC: VGA–WUXGA@60RB HD: 480i–1080p
- **Audio transmission:** LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio (32–192KHz Fs sample rate)
- **Video Bandwidth:** 225MHz/6.75Gbps



AV Conversion



CRUCIAL TOOLS FOR EVERYDAY NEEDS

Often referred to as our 'get out of jail' range of products by installers, our comprehensive selection of conversion solutions help tame the wide variety of AV signals, connector types, and legacy formats to allow installers to easily integrate and optimise any audio or video source into a wider AV system.

We have built up an extensive range of AV format converters, scalers, world standards converters and time based correctors that provide effective solutions for any home or commercial installation environment.

AV Conversion

At CYP, we deliver an extensive range of AV format converters that provide effective solutions for any home or commercial installation environment. This includes world standards converters, time base correctors and multiple format to HDMI converters.

The range includes DACs, ADCs, splitters and HDMI scalers.

AU-11DD

Dolby Digital Downmixer with Digital / Analogue Audio Conversion

- Decode and down mix Dolby Digital audio signals to stereo
- Perfect for installations where zones have different audio requirements

AU-1HARC

HDMI to Stereo Audio (2 Phono) ARC extractor

- Extract the audio signal from any ARC (Audio Return Channel) enabled HDTV
- Includes integrated DAC and HDMI sampling rates of 192 kHz

AU-IP21

IP Audio Controller

- 2 source audio switch
- Selectable digital toslink and analogue L/R stereo inputs, outputting to L/R analogue stereo
- Provides IP volume and muting control of 2 sources
- Telnet and Web GUI control
- Providing remote volume control in installations using power amps

AU-D250

Advanced Digital Audio Converter

- Comprehensive audio format conversion (DAC and ADC)
- Upscale input signals for an enhanced listening experience
- (44.1kHz to 192kHz - 24bit depth)
- Easy integration of USB, HDMI, L/R Stereo, Digital Optical and
- Coaxial sources into amplifiers or headphones

AU-D3-192

Digital Audio Converter

- Convert either coaxial or optical signals from a digital stereo to analogue stereo audio (DAC)
- 192kHz sample rate for enhanced sound reproduction

AU-D4

Analogue Audio Converter

- Convert analogue stereo audio into simultaneous digital coaxial and optical (Toslink) outputs (ADC)
- Uncompressed 2-channel LPCM digital audio signal output

SY-298H

HDMI to HDMI Up & Down Scaler

- Allows a HDMI source signal to be up or down scaled according to the screen specifications required
- Any HDMI signal inputted can be scaled up or down to 720p or 1080p, plus PC output resolutions of WXGA or WUXGA

SY-4KS

HDMI 4K Scaler (Optional Up & Down Scaling)

- Supports HDMI upscaling to 4K or downscale to 1080p@24
- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz

SY-P293

PC to HDMI Converter and Scaler with Audio

- Scales analogue video signal from a PC source to a digital HDMI output boasting a wide-range of HDTV and PC resolutions
- Audio is combined with HDMI video output

SY-P295N

CV/SV to HDMI Converter and Scaler with Audio

- Scales analogue video signal from a CV or SV source to a digital HDMI output, boasting a wide-range of HDTV and PC resolutions
- Audio is combined with HDMI video output

Images not to scale

AV Distribution

WHEN RELIABILITY IS THE ULTIMATE CONSIDERATION

It doesn't matter if the products at either end of the chain are the best in the market; if the link between the two is anything but perfect, it will have a detrimental effect on performance. At CYP, we have been developing a wide range of AV Distribution products for over twenty years, with reliability always the number one consideration.

This gives integrators confidence in the knowledge that when they use CYP products in their systems, they are fitting the best products for the job – no matter where or for what purpose.

AV Distribution

We offer an unrivalled range of AV distribution solutions for professional installers. When it comes to the unique connectivity challenges faced within any installation, we offer real world robust solutions that optimise AV performance within any environment.

The range includes digital to analogue converters (DACs), HDMI audio management, AV signals over CAT and IR distribution solutions.

AU-11CA-4K

Embed Audio onto HDMI (4K support)

- Connect an external audio signal into any HDMI source
- Perfect for installations where zones have different audio requirements

AU-11CD-4K

De-embed Audio from HDMI (4K support)

- HDMI repeater with integrated Audio de-embedding, up to 5.1
- Supports 4K resolutions enabling flexible audio signal management from ultra high definition video signal paths

AU-11HB

Audio only HDMI bridge

- Designed to integrate audio only sources into video distribution systems.
- Integrate SONOS (Or any audio only source) into a HDMI or HDBaseT video distribution system .

AU-11SA-4K

De-embed Audio from HDMI (4K support)

- HDMI repeater with integrated Audio de-embedding, up to 7.1
- Supports 4K resolutions enabling flexible audio signal management from ultra high definition video signal paths

AU-D14

4-Way Digital Audio Splitter

- Distributes a single optical source for connection to up to 4 amplifiers.
- Supports Dolby & DTS bypass
- Supports SPDIF bandwidth from 32KHz to 192KHz

AU-D18

Lip Sync Corrector

- Users can fine tune the timing of the audio so that it is synchronised with the video signal
- Adjustable delay between 0 & 300ms
- Compatible with a 2 Phono stereo audio signals

AU-D41

4-Way Digital Audio Switcher

- Switch between 4 optical sources when connected to a single amplifier
- Optical sampling rate supports up to 192 kHz
- Supplied with IR Remote Control

AU-A300

2-Channel Digital Amplifier

- 30W per channel digital stereo amplifier
- Switchable HDMI inputs and audio breakout (AU-A300) - IP control and RS-232 drivers available

PU-304-KIT

Digital Audio over CAT6 Extender Set

- Send digital audio signals up to 150m over a CAT cable infrastructure
- Supports both coaxial and optical digital signals
- Supports Stereo and Multi-channel digital audio (LPCM, DTS, Dolby Digital, Dolby Digital Plus)

PU-305BDA-TX

Bi-Directional Analogue Audio over Single CAT Transmitter

- Send and receive analogue audio signals over a single run of CAT5e/6 cable up to 300m
- Power over Ethernet (PoE) function can power the receiver unit eliminating the need for a second power supply

PU-305BDA-RX

Bi-Directional Analogue Audio over Single CAT Receiver

- Receive and receive analogue audio signals over a single run of CAT5e/6 cable up to 300m
- Power over Ethernet (PoE) function can power the transmitter unit eliminating the need for a second power supply

RE-HDEQ-4K

HDMI Repeater (4K support)

- Supports TMDS equalisation and CDR (Clock Rate Recovery) for extended HDMI cable range.
- Requires HDMI source to output power via HDMI cable to power Enhancer (2W as standard).
- Supports HDMI cable distance of 15m either side of the device at full 1080p.

PU-305BD-TX

Bi-Directional Digital Audio over Single CAT Transmitter

- Send digital audio signals up to 300m over CAT5e/6 cable infrastructure
- Transmission of both optical audio and RS-232 signals supported
- Power over Ethernet (PoE) function can power the receiver unit eliminating the need for a second power supply

PU-305BD-RX

Bi-Directional Digital Audio over Single CAT Receiver

- Receive digital audio signals up to 300m over CAT5e/6 cable infrastructure
- Transmission of both optical audio and RS-232 signals supported
- Power over Ethernet (PoE) function can power the transmitter unit eliminating the need for a second power supply

RE-11HS-4K

HDMI to HDMI Equaliser (4K support)

- Boosts the HDMI signal to improve the HDMI signal quality to the display
- v1.4 HDMI specifications, supporting 4K resolutions, 3D signals, and 'Deep Colour' together with High Definition Audio

Images not to scale

HDMI Distribution

ONE STANDARD – MULTIPLE SOLUTIONS FOR ANY INSTALLATION ENVIRONMENT.

HDMI is now firmly entrenched as being the dominating standard signal carrier for AV applications, but this can often bring challenges for installers when managing signals to enable distribution of HDMI content from multiple sources to multiple displays.

We focus on installer feedback and the latest innovative technologies to offer real-world robust solutions that optimise HDMI performance within any environment. Our comprehensive range of HDMI distribution products provide professional installers with an unparalleled choice of solutions.

HDMI Distribution

We offer an unrivalled range of HDMI distribution solutions for professional installers and system integrators. When it comes to the unique connectivity challenges faced within any installation, our range offers real-world robust solutions that optimise HDMI performance within any environment.

The range includes HDMI splitters, switchers, HDMI over CAT distribution and HDMI signal conversion.

EL-41S-4K

4-Way HDMI Switcher with advanced EDID management, IP, RS-232, & IR Control (4K resolution support)

- Enables the switching of four HDMI sources to a single HDMI output, allowing a display or AV Receiver to select between four devices.
- Fast switching technology greatly eliminates switching times.
- Supports 4Kx2K, 3D, 36-bit Deep Colour, Hi-Def. lossless audio.
- The management of source/sink scenarios can be operated easily through on-panel buttons, IR remote control, RS-232, Telnet and WebGUI control.

EL-41PIP

4-Way HDMI Switch with Integrated Multi-View (Picture in Picture) Technology

- Simultaneous integration of up to 4 sources on a single display - Multiple screen layout configurations.
- Control by IR, RS-232, Telnet (IP) or Web GUI
- Ability to mirror, rotate, zoom and overlay source images.
- Fade in out display functionality.
- Seamless switching and on-screen windows.
- Ideal for CCTV or Classroom applications where multiple sources can be viewed on a single display.

EL-C81C

8-Way HDMI Switcher with CEC Control and RS-232

- Connects eight HDMI sources to a single display allowing any source to be selected and displayed on the connected display.
- Can be controlled via the supplied remote control or by using the input switching buttons on the front of the device.
- Integration with third party control systems is achieved via RS-232.
- Supports resolutions up to 1080p, with 16-bit 'Deep Colour', High Definition Audio, and 3D signal compatibility.

EL-5500

Advanced HDMI / VGA Presentation Switch.

- Comprehensive multi-format presentation switch with on-board scaling.
- Control by IR, RS-232, Telnet (IP) or Web GUI
- Digital to Analogue & Analogue to Digital Audio conversion (DAC/ADC).
- Audio breakout and switching.
- Perfect for any educational or commercial environment requiring integration of multiple sources and signal formats to two HDMI and one VGA display.

OR-HD62CD

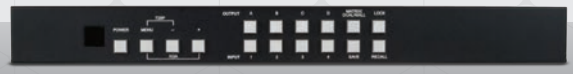
6 x 2 UHD HDMI Switch with Audio De-Embedding

- In switching mode, six HDMI sources to two HDMI displays. In Matrix Mode, any source independently to any output.
- Control by IR, RS-232, Telnet (IP) or Web GUI.
- Fast switching technology dramatically improves the sync time to the HDMI displays over traditional switchers.
- Includes a cutting edge Picture in Picture (PIP) preview mode, allowing the user to show 5 unselected HDMI sources in a row of small windows overlaid on top of the primary selected HDMI source.
- Includes the ability to de-embed Hi-Definition lossless audio via a dedicated Optical output for each HDMI output, 4K resolution support, and 3D signal support.

OR-44VWC

4 x 4 Seamless HDMI Video Wall Control Matrix

- Advanced 'seamless' HDMI matrix switcher that can be easily configured and controlled for three different output modes (Matrix, Dual, and Video Wall).
- Ideal for a variety of integration and digital signage applications.
- Displays any input signal on a 2x2 video wall as a full image including bezel correction.
- Seamlessly switches any input signal to any output display, supporting full HDMI matrix functionality.
- Control is via IR, remote control, Telnet (IP), RS-232 or front panel buttons or CYP downloadable software (available on our website).



OR-42UHD

4 x 2 Ultra High Definition HDMI Matrix Switcher (4K support)

- Connects four HDMI sources to two displays allowing any source to be independently displayed on any screen.
- Can be controlled via the supplied remote control, RS-232, or by using the input switching buttons on the front of the device.
- Integration with third party control systems is easily achieved with additional RS-232 support or via Web GUI control.
- Supports Ultra High Definition 4K resolutions, up to 16-bit 'Deep Colour', High Definition Audio, and 3D signal compatibility.

HDMI Distribution Amplifiers

Our range of HDMI Distribution Amplifiers (splitters) offer proven industry success within many diverse applications.

Whether distributing a single source to a handful of displays, through to several hundred displays, we have a solution to meet your needs.

QU-18S-4K

1 to 8 HDMI Distribution Amplifier (4K Resolution)

The QU-18S-4K Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to eight identical outputs. This device is v1.4 HDMI compliant and now supports 4K resolutions, 3D Video signals, and 'Deep Colour', together with High Definition Audio. Each buffered output can run 1080p/8-bit up to 20 metres and can also be cascaded up to 3 layers.

QU-16E-4K 1 to 16 HDMI Distribution Amplifier (4K Resolution)

QU-14S-4K 1 to 4 HDMI Distribution Amplifier (4K Resolution)

QU-12S-4K 1 to 2 HDMI Distribution Amplifier (4K Resolution)

- Supports resolutions VGA~WUXGA, 480i~1080p, 4K UHD@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2), 4K UHD@ 60Hz (YUV 4:2:0), 4K/2K@24/25/30Hz (RGB 4:4:4 & YUV 4:2:2) and 4K/2K@ 60Hz (YUV 4:2:0) dependent upon the output display's EDID settings
- High Definition Audio supported : Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (32-192KHz sample rate)
- Supports CEC bypass, Deep Colour (10 & 12bit), xvYCC and 3D signals

High Performance HDMI Cables

Giving the ultimate in HD performance at a real world price.

All of our HDMI cables are HDMI 2.0 and 4K Certified, featuring 99.999% oxygen free copper and hard wearing durable moulded plugs.

HDMI2-101 **1m**
HDMI2-102 **2m**
HDMI2-103 **3m**
HDMI2-105 **5m**
HDMI2-107 **7m**
HDMI2-110 **10m**
HDMI2-115 **15m**

Ultra Slim HDMI Cables

For installations where space is a premium, such as wall-mounted flat-screen TV's.

Our latest Ultra Slim HDMI cable range offer high speed performance in a very discrete package.

HDMI2-050-US **0.5m**
HDMI2-101-US **1m**
HDMI2-151-US **1.5m**
HDMI2-102-US **2m**
HDMI2-103-US **3m**

Flexi Form HDMI Cables

Our Flexi-Form HDMI cable range features an innovative construction that allows each cable to be manipulated into any desired shape that will be retained.

This is the ideal solution for custom installers looking to easily achieve a perfectly dressed rack for their clients.

HDMI2-030-FX **0.3m**
HDMI2-050-FX **0.5m**
HDMI2-075-FX **0.75m**

TRAINING ACADEMY

At CYP, providing our installer partners with industry leading training and hands on support is one of our primary objectives. Within our dedicated AV Academy facility in Middlesex and remotely in locations across the UK and Europe, we provide tailored training and workshops that are suited to all levels of integrator and installer.

Our workshops create a friendly training environment where installers can confidently build their knowledge about the unique challenges faced when integrating AV within any installation environment. Our AV Academy offers unrivalled industry facilities where we can recreate a range of installation scenarios that allows installers to get hands on with products and build their understanding of the complexities of integrating multiple AV signals.

Multi-room HDMI Distribution and HDBaseT Design

This course is perfectly suited to existing integrators and satellite, aerial and CCTV installers who are currently looking to expand their business into AV distribution. Our one day introduction to multi-room AV course provides all of the core knowledge required to confidently specify and install multi-room AV solutions. This AV Academy workshop is designed to provide sound knowledge of the complexities of HDMI signals and the integration of multiple signal formats, including audio, within any given multi-zone AV system.

The HDBaseT design section of the course is aimed to provide installers with advanced knowledge and understanding of HDBaseT technology and its application within a host of installation environments. Installation partners will be introduced to the variety of CYP product options and learn how to design systems that maximise the performance and, importantly, the cost effectiveness of any HDBaseT installation. The course is aimed to help build confidence when integrating HDBaseT matrix solutions while also introducing many new products and advanced applications.

All of our CYP workshops are provided by our Training and Technical Support Manager, Neil Walton. Neil has over 25 years' experience of training and over 10 years specifically working within the residential AV installation market. His passion for the industry and friendly approach to engaging training delegates makes CYP training both insightful and enjoyable for all those that attend.

In addition to CYP structured workshops, the doors to our AV Academy facility are always open to our partners to use as a sales showroom, pre installation set up and system testing.

CYP TRAINING ACADEMY

2015 Confirmed Dates

DATE	DESCRIPTION	WHERE
Tuesday 10th March	Multi-room HDMI Distribution and HDBaseT System Design	CYP, Shepperton
Tuesday 14th April	Multi-room HDMI Distribution and HDBaseT System Design	CYP, Shepperton
Tuesday 12th May	Multi-room HDMI Distribution and HDBaseT System Design	CYP, Shepperton
Tuesday 09th June	Multi-room HDMI Distribution and HDBaseT System Design	CYP, Shepperton

For further information about our current and future training including available dates please contact: **training@cypeurope.com** or alternatively contact Neil directly on **neil.walton@cypeurope.com**

CYP Training Department contact number: +44 (0)20 3137 6690

We work hard to make your life easier.

Our vision is simple:

Continued dedication and focus has made CYP a market leader in connectivity solutions for both systems integrators and professional AV installers throughout Europe. We have a range of over 350 tried and tested products that offer a standard of performance and reliability that cannot be matched.

The key to building such a successful range lies with the ability to continuously develop new products that drive innovation. Within AV distribution, this requires an excellent market understanding and the very best R&D engineers. CYP have a continuous new product roadmap containing over 30 projects at any one time. This ensures that we can always provide our partners with innovative solutions utilising the very latest technologies.

From our European headquarters in Shepperton (UK), we support distributors, systems integrators and installers throughout Europe, the Middle East and Africa. From initial specification of projects through to industry leading after sales support and training, we provide our partners with complete confidence in the AV solutions they deliver. Behind this support is a dedicated team of product managers and engineers who all have the skills and experience to deliver practical help at every stage of the CYP journey. It is this passion for the industry and pride in our products that makes us the perfect manufacturer partner.

To deliver market leading connectivity solutions that enhance the capability of Audio Visual products in any installation environment.

PRODUCT PERFORMANCE

CYP products offer unrivalled levels of performance and reliability. All of our products have been tested and approved for compatibility with all recognised manufacturers of TV displays and AV hardware. We are proud to say this is supported by a return rate of less than 0.5%.

LOGISTICS

CYP offer next day delivery throughout Europe for over 350 stocked products. Our network of 40 international distributors are supplied from our UK central warehouse. In 2014 we shipped over 7,500 orders that equated to over 50,000 product units.

TECHNICAL SUPPORT

From initial specification of projects through to industry leading after-sales support and training, CYP provide our partners with complete confidence in the AV solutions they deliver. Our full time UK based technical support team are available by phone or email from 9am–6pm, 5 days per week.

TRAINING

Industry leading trainers and interactive courses are available from CYP to help drive confidence of AV distribution and automation systems. Training is provided at our purpose built AV Academy in Shepperton and also at other locations throughout the UK and Europe.

RESEARCH & DEVELOPMENT

Over 90 R&D engineers work continuously on the development of new CYP products. With more than 10 new products scheduled for launch at ISE 2015, CYP is driving innovation within the heart of the AV market.

SATISFACTION GUARANTEE

We are passionately confident about the performance of our products. This is supported by the exclusive satisfaction guarantee* we provide to our installation partners. If a customer is not completely satisfied with the performance of any CYP product, it can be returned to us without question.

*Subject to terms and conditions

www.cypeurope.com

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